Date: Wed, 16 Feb 94 04:30:42 PST
From: Ham-Space Mailing List and Newsgroup <ham-space@ucsd.edu>
Errors-To: Ham-Space-Errors@UCSD.Edu
Reply-To: Ham-Space@UCSD.Edu
Precedence: Bulk
Subject: Ham-Space Digest V94 #31
To: Ham-Space

Ham-Space Digest Wed, 16 Feb 94 Volume 94 : Issue 31

Today's Topics:

Daily IPS Report - 16 Feb 94
Landsat Transmissions
Shuttle Scatter???

Send Replies or notes for publication to: <Ham-Space@UCSD.Edu>
Send subscription requests to: <Ham-Space-REQUEST@UCSD.Edu>
Problems you can't solve otherwise to brian@ucsd.edu.

Archives of past issues of the Ham-Space Digest are available
(by FTP only) from UCSD.Edu in directory "mailarchives/ham-space".

Date: 15 Feb 94 23:59:16 GMT
From: munnari.oz.au!newshost.anu.edu.au!sserve!usage!metro!news.ci.com.au!eram!
dave@network.ucsd.edu
Subject: Daily IPS Report - 16 Feb 94
To: ham-space@ucsd.edu

IPS RADIO AND SPACE SERVICES AUSTRALIA
Daily Solar And Geophysical Report
Issued at 2330 UT 15 February 1994
Summary for 15 February and Forecast up to 18 February
IPS Warning 05 was issued on 14 Feb and is still current.

1A. SOLAR SUMMARY
Activity: low

Flares: none.

Observed 10.7 cm flux/Equivalent Sunspot Number : 104/053

1B. SOLAR FORECAST

	16 February	17 February	18 February
Activity	Low	Low	Low
Fadeouts	None expected	None expected	None expected

Forecast 10.7 cm flux/Equivalent Sunspot Number : 105/054

1C. SOLAR COMMENT
None.

2A. MAGNETIC SUMMARY
Geomagnetic field at Learmonth : unsettled to active, apart from minor storm levels 12-15UT.

Estimated Indices :	A	K	Observed A Index 14 February
Learmonth	15	3334 5443	
Fredericksburg	17		28
Planetary	20		28

2B. MAGNETIC FORECAST

DATE	Ap	CONDITIONS
16 Feb	20	Unsettled to active levels, with occasional minor storm periods.
17 Feb	15	Unsettled to active.
18 Feb	10	Unsettled.

2C. MAGNETIC COMMENT
None.

3A. GLOBAL HF PROPAGATION SUMMARY

	LATITUDE BAND		
DATE	LOW	MIDDLE	HIGH
15 Feb	normal	fair	poor-fair

PCA Event : None.

3B. GLOBAL HF PROPAGATION FORECAST

	LATITUDE BAND		
DATE	LOW	MIDDLE	HIGH
16 Feb	normal	fair	poor-fair
17 Feb	normal	normal	fair
18 Feb	normal	normal	fair

3C. GLOBAL HF PROPAGATION COMMENT
NONE.

4A. AUSTRALIAN REGION IONOSPHERIC SUMMARY

MUFs at Sydney were 30-60% enhanced until 06UT, 15-30% enhanced
07-18UT, and near predicted monthly values thereafter.

T index: 72

4B. AUSTRALIAN REGION IONOSPHERIC FORECAST
DATE   T-index MUFs
16 Feb   30   Near predicted monthly values.
17 Feb   30   Near predicted monthly values.
18 Feb   30   Near predicted monthly values.

Predicted Monthly T Index for February is 30.

4C. AUSTRALIAN REGION COMMENT
Regular Sporadic E layer, and continued geomagnetic activity, may
have combined to degrade local propagation conditions yesterday.
Similar conditions are expected for today. Conditions at Townsville
appeared normal yesterday.
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Dave Horsfall (VK2KFU)   VK2KFU @ VK2OP.NSW.AUS.OC   PGP 2.3
dave@esi.COM.AU   ...munnari!esi.COM.AU!dave   available

Date: Mon, 14 Feb 1994 10:54:32 GMT
From: ucsnews!sol.ctr.columbia.edu!howland.reston.ans.net!pipex!bbc!ant!
boyer@network.ucsd.edu
Subject: Landsat Transmissions
To: ham-space@ucsd.edu

I have seen the orbital elements for Landsat in this group. Does anyone
know about the transmissions from this sat. Yes we have all seen the great
pickies, but is it at all feasable for 'joe public' to receive and decode
the info?

Has anyone got frequecies and info on the modulation?

John B

John.boyer@rd.eng.bbc.co.uk

Date: Mon, 14 Feb 94 18:36:51 GMT
From: galileo.cc.rochester.edu!news@cs.rochester.edu
Subject: Shuttle Scatter???
To: ham-space@ucsd.edu

Has anyone tried to make a contact by bouncing a signal off the ionized gasses surrounding the Shuttle as it re-enters? I assume it would work just like meteor-scatter, except it would be predictable. When there is a high-inclination orbit (like 57 degrees), a KSC landing puts the re-entry path over the middle of the US. Anyone want to try a VHF QSO?

-Bill VanRemmen
billy@urhep.pas.rochester.edu
URHEP::billy

My opinions. No one else's. Definitely not the U of R's.

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"Experience should teach us to be most on our guard to protect liberty when the government's purposes are beneficient . . . the greatest dangers to liberty lurk in insidious encroachment by men of zeal, well meaning but without understanding."

Justice Louis Brandeis
Olmstead vs. United States, United States Supreme Court, 1928

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End of Ham-Space Digest V94 #31
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